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PPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/996,189	11/28/2001		Sidney Edward Fisher	60130-1291	2239	
26096	7590	09/15/2004		EXAMINER		
		Y & OLDS, P.C.	RODRIGUEZ, PAMELA			
400 WEST MAPLE ROAD SUITE 350				ART UNIT	PAPER NUMBER	
BIRMINGH.	AM, MI	48009	3683			

DATE MAILED: 09/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	09/996,189	FISHER, SIDNEY EDWARD				
Office Action Summary	Examiner	Art Unit				
	Pam Rodriguez	3683				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a reply be tin to a reply within the statutory minimum of thirty (30) day riod will apply and will expire SIX (6) MONTHS from atute, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 2	9 June 2004.					
2a)⊠ This action is FINAL . 2b)□ 1	This action is non-final.					
3) Since this application is in condition for allo closed in accordance with the practice und						
Disposition of Claims						
4)	20 is/are withdrawn from considerat	ion.				
Application Papers						
9)☐ The specification is objected to by the Exam	niner.	•				
10) The drawing(s) filed on is/are: a)	The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to	the drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the		• • • • • • • • • • • • • • • • • • • •				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International But * See the attached detailed Office action for a	nents have been received. nents have been received in Applicati priority documents have been receive reau (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date		Patent Application (PTO-152)				

DETAILED ACTION

1. The Amendment filed June 29, 2004 has been received and considered.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-5, 7, 8, 11, 12, 14, 15, 17, 19, and 21-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,649,726 to Rogers, Jr. et al in view of U.S. Patent No. 6,114,821 to Kachouh.

Regarding Claim 1, Rogers, Jr. et al disclose an actuator 307 (see Figure 8) having all the features of the instant invention including: a motor 310, a cam 326 rotatable about a cam axis and drivable by the motor (see column 9 lines 28-42), a cam follower 336, an output member 372 connected to the cam follower 336 (see Figure 8), wherein powered rotation of the cam 326 causes the cam follower 336 to be radially displaced relative to the cam axis to provide first and second output positions of the output member 372 (see column 9 lines 28-42, wherein the differing output positions of output member 372 are readable as the positions the member 372 is put through to move the member into a locked position and then an unlocked position), wherein the cam has a profile 364 that includes a radial stop 352 which in conjunction with the cam

follower 336, act as a detent so that the cam follower 336 is capable of controlling a position of the cam (see column 9 lines 50-53), and wherein the motor is powered to move the output member 372 from a first output position (i.e., a locked position) to a second output position (i.e., an unlocked position) and is driven to move the output member 372 from the second output position to the first output position (i.e., motor 310 is readable as being powered to move output member 372 when the gear wheel 318 is moved by the motor in a counterclockwise direction, the locked position, and then consequently in a clockwise direction, the unlocked position, as discussed in column 9 lines 28-49).

However, Rogers, Jr. et al. '726 does not disclose that the motor is powered in a SINGLE direction to move the output member from the first output position to the second output position and is driven in the single direction to move the output member from the second output position to the first output position.

Kachouh '821 is relied upon merely for their teachings of an actuator comprising a motor 1, cam 8a/8b rotatable about a cam axis drivable by the motor, a cam follower 3/9, and an output member 4 connected to the cam follower 3/9, wherein powered rotation of the cam causes the cam follower to be radially displaced relative to the cam axis to provide first and second output positions I and II of the output member (i.e., a locked and an unlocked position of output member 4 as discussed in column 2 lines 55 et al.), and wherein the motor 1 is powered in a single direction to move the output member 4 from the first output position I to the second output position II and is driven in the single direction to move the output member 4 from the second output position II to

Application/Control Number: 09/996,189

Art Unit: 3683

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the first output position I (see column 3 lines 1-38, wherein the motor turns "on" and "off" in a single direction to move the lever 4 to either the locked or unlocked position).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have substituted the motor arrangement of Kachouh '821 for the motor arrangement of Rogers, Jr. et al as an alternate means of initiating movement of the output member. Rogers, Jr. et al employs a reversible electric motor to power a gear wheel to initiate movement of the output member. However, substituting a single direction powered motor arrangement as taught by Kachouh would provide a simpler and less costly motor arrangement to initiate movement of the output member and thus simplify the overall design of the actuator assembly.

Regarding Claim 2, Rogers, Jr. et al further disclose that the radial stop 352 and the cam follower 336 act as a detent when the motor is not being powered (see column 9 line 58-column 10 line 6).

Regarding Claim 3, see column 9 lines 43-49.

Regarding Claim 4, see column 9 lines 43-53.

Regarding Claim 5, Rogers, Jr. et al disclose that the cam 326 has a first radial stop 352 to stop the cam follower 336 at a first radius and a second radial stop (readable as a midpoint along surface 366 shown in Figure 8) to stop the cam follower 336 at a second radius, wherein the first and second radii are different (see Figure 8, wherein the radial distance from point 362 to point 352 is clearly a different radius than that of the radius between point 362 and the midpoint of surface 366).

Application/Control Number: 09/996,189

Art Unit: 3683

Regarding Claim 7, see Figure 8 where multiple points 352 (readable as first stops) are shown as wells as multiple midpoints of surfaces 366 (readable as second stops) are also present.

Regarding Claim 8, Rogers, Jr. et al disclose that the cam follower 336 is biased radially outwardly relative to the cam axis via pivot pin 338.

Regarding Claim 11, see Figure 8 and the profiles of surfaces 352 and 366 as well as Claim 5.

Regarding Claim 12, see Figure 8 and the cam profile portion beginning at point 340 curving up inwardly towards point 350 and then up again towards point 352.

Regarding Claim 14, see Figure 8 and the surface 366 readable as being at least substantially radially orientated.

Regarding Claim 15, any one of the remaining stop surfaces 352 can be readable as a return stop in that they all would prevent the backward rotation of the cam 326 past those surfaces.

Regarding Claim 17, see column 9 lines 29-38 and lines 43-49.

Regarding Claim 19, see column 1 lines 4-6.

Regarding Claim 21, see Figure 8.

Regarding Claim 22, Rogers, Jr. et al., as modified, disclose most all the features of the instant invention as applied above, except for the motor being connected with the cam via a centrifugal clutch.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have constructed the motor of Rogers, Jr. et al., as modified, to arbitrary.

be connected with the cam via a centrifugal clutch merely as an alternate means of manipulating the cam's movement. A clutch would provide an adequate means of initiating movement of the cam to thus engage with its corresponding cam follower. As long as this type of movement is initiated, the means used to perform this function are

Regarding Claim 23, see gear and pinion arrangement 312/318.

Regarding Claim 24, see Claim 1.

Response to Arguments

4. Applicant's arguments filed June 29, 2004 have been fully considered but they are not persuasive.

In response to applicant's arguments regarding the Kachouh reference, the examiner maintains the 103 rejection presented above is still valid. In particular, the examiner is not relying upon the Kachouh reference for teaching an output member (Rogers, Jr. et al already teaches this structure as outlined in the rejection above), but rather the examiner is relying upon the Kachouh reference for the teaching of an electric motor powered in a single direction.

Rogers, Jr. et al employs a reversible electric motor to power a gear wheel to initiate movement of an output member, while Kachouh discloses an electric motor powered in a single direction to move a member to either a locked or unlocked position. Therefore, regardless, of how the motor of Kachouh is activated, the motor still operates in a single direction to move a member from one position to another. And since Rogers,

Jr. et al already teaches the claimed output member structure, employing the Kachouh reference merely for the teachings of a uni-directional motor to operate a similar type of actuator system is maintained to be a valid 103 rejection.

It is for these reasons that the above rejections have been maintained.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pam Rodriguez whose telephone number is 703-308-3657. The examiner can normally be reached on Mondays 6 am -4 pm and Tuesdays 6 am -12 pm.

Art Unit: 3683

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Lavinder can be reached on 703-308-3421. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Pam Rodriguez Primary Examiner
Art Unit 3683

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